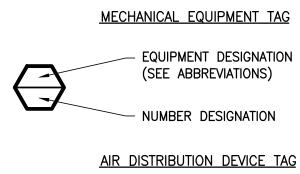
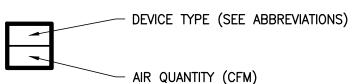
SYMBOLS





THERMOSTAT

FORCED AIRFLOW

DEMOLITION PLAN NOTE

INDUCED AIRFLOW

(#) NEW WORK PLAN NOTE

SHEET METAL

MANUAL AIR BALANCING DAMPER

REDUCER

FLEXIBLE DUCT

ROUND DUCT

MOTOR OPERATED DAMPER
RUSKIN CD−60 OR EQUAL

ABBREVIATIONS

HONS
ABOVE
ABOVE FINISHED FLOOR
AIR HANDLING UNIT
AUXILIARY
BRITISH THERMAL UNIT PER HOUR
CUBIC FEET PER MINUTE
DRY BULB
DOWN
ENTERING AIR TEMPERATURE
EXHAUST FAN
EXISTING TO REMAIN
FOIL SCRIM KRAFT
HORSEPOWER
HEAT PUMP
HERTZ
INCHES
KILOWATT
LOUVER
LEAVING AIR TEMPERATURE
MAXIMUM
THOUSAND BTU PER HOUR
MINIMUM
NOISE CRITERIA
NOMINAL
OUTSIDE AIR
PRESSURE DROP
PHASE
PACKAGED TERMINAL HEAT PUMP
RELATIVE HUMIDITY
REVOLUTIONS PER MINUTE
SENSIBLE
SUPPLY GRILLE
STATIC PRESSURE
(INCHES OF WATER)
TYPICAL
VOLTS
WET BULB TEMPERATURE, DEG. *F
WATER GAUGE

GENERAL NOTES

- 1. WHERE DUCTWORK, PIPING, OR ANY OTHER MECHANICAL EQUIPMENT IS INSTALLED ABOVE THE CEILING STRUCTURE, SUFFICIENT CLEARANCE SHALL BE PROVIDED BELOW ALL LOW POINTS OF THIS EQUIPMENT FOR THE INSTALLATION OF THE FINISHED CEILING AND ITS STRUCTURE AND ALL CEILING—MOUNTED EQUIPMENT INCLUDING CEILING—MOUNTED MECHANICAL EQUIPMENT, LIGHT FIXTURES, PLUMBING LINES, SPRINKLER HEADS, ETC. CLEARANCES REQUIRED FOR THE INSTALLATION OF THIS CEILING—MOUNTED EQUIPMENT SHALL BE VERIFIED AND COORDINATED WITH THE GENERAL CONTRACTOR AND ALL INVOLVED SUBCONTRACTORS BEFORE INSTALLING THE MECHANICAL EQUIPMENT.
- 2. WHERE SPACE IS LIMITED, SUCH AS IN FURRED CEILING SPACES AND CHASES, ROUTES AND CLEARANCES AND INSTALLATION PROCEDURES FOR DUCTWORK, PIPING, VALVES, AND OTHER MECHANICAL EQUIPMENT SHALL BE VERIFIED AND COORDINATED WITH OTHER WORK BEFORE EQUIPMENT IS INSTALLED.
- 3. ALL STRUCTURAL STEEL AND OTHER MATERIALS REQUIRED FOR OVERHEAD—SUSPENDED MECHANICAL EQUIPMENT SHALL BE PROVIDED BY MECHANICAL CONTRACTOR UNLESS DETAILED ON STRUCTURAL DRAWINGS. ALL NECESSARY REINFORCING IN BUILDING STRUCTURE SHALL BE PROVIDED BY GENERAL CONTRACTOR.
- 4. GRILLE AND OTHER EQUIPMENT MOUNTING HEIGHTS WHERE SHOWN ON DRAWINGS ARE MEASURED FROM FINISHED FLOOR TO BOTTOM EDGE OF OPENING UNLESS OTHERWISE INDICATED.
- 5. MOUNT WALL SENSORS WITH SETPOINT ADJUSTMENT 5'-0" ABOVE FINISHED FLOOR.
- 6. IF ANY EQUIPMENT OTHER THAN THAT SHOWN OR SPECIFIED IS FURNISHED, THE CONTRACTOR SHALL VERIFY THAT THE EQUIPMENT CAN BE INSTALLED IN THE SPACE AVAILABLE, INCLUDING PASSAGE THROUGH DOORS AND ACCESS DOORS AND ACCESS TO THOSE PARTS OF THE EQUIPMENT REQUIRING SERVICE.
- 7. ALL DUCTWORK AND PIPING SHALL BE LOCATED ABOVE NEW OR EXISTING CEILING UNLESS NOTED OTHERWISE.
- 8. MAXIMUM LENGTH OF FLEXIBLE DUCTS SHALL BE 5 FEET.
- 9. RUN CONDENSATE LINE FROM DRAINS ON AIR HANDLING UNITS AS INDICATED ON DRAWINGS. DRAINS SHALL BE SAME SIZE AS TAPPING ON UNIT EXCEPT NOT SMALLER THAN 1"0.
- 10. WHERE EXTERNAL INSULATION IS SHOWN ON DUCTS CONTAINING INTERNAL INSULATION, THE THICKNESS OF THE EXTERNAL INSULATION MAY BE REDUCED BY THE THICKNESS OF THE INTERNAL INSULATION.
- 11. ALL INTERNAL INSULATION IN DUCTWORK SHALL BE PROTECTED AT UPSTREAM AND DOWNSTREAM EDGES BY MITERED OFFSETS IN DUCT. OFFSETS SHALL BE SAME AS THICKNESS OF INSULATION.
- 12. SEE SPECIFICATIONS FOR DESCRIPTION OF DUCTWORK INSULATION.
- 13. ALL AIR INTAKE AND DISCHARGE LOUVERS TO EXTERIOR WALLS OF THE BUILDING SHALL BE FURNISHED BY MECHANICAL CONTRACTOR.
- 14. ALL DUCTWORK SHOWN LINED SHALL HAVE 1/2" INTERNAL INSULATION. SEE SPECIFICATIONS.
- 15. OFFSET DUCTS AND PIPING WHERE NECESSARY TO CLEAR OTHER WORK SUCH AS BEAMS, PIPES, ELECTRICAL EQUIPMENT, ETC., COORDINATE DUCTWORK INSTALLATION WITH OTHER TRADES TO AVOID SPACE CONFLICTS.
- 16. ALL CEILING-MOUNTED DIFFUSERS AND GRILLES IN FURRED CEILING SHALL BE SYMMETRICALLY LOCATED WITH RESPECT TO LIGHTING FIXTURES. DO NOT SCALE DRAWINGS FOR LOCATIONS. COORDINATE EXACT LOCATIONS WITH ELECTRICAL CONTRACTOR AND REFER TO REFLECTED CEILING PLAN.
- 17. DUCT SIZES SHOWN ON PLANS INDICATE CLEAR INSIDE DIMENSIONS OF DUCTS, NOT INCLUDING ALLOWANCE FOR INTERNAL INSULATION.
- 18. WHERE ANY PART OF BUILDING IS CUT OR OTHERWISE DISFIGURED TO PERMIT INSTALLATION OF NEW EQUIPMENT, THIS PART OF BUILDING SHALL BE REPAIRED OR REPLACED TO MATCH EXISTING.
- 19. PROVIDE AND INSTALL ACCESS DOORS IN DRYWALL TO MATCH EXISTING FOR ACCESS TO ALL BALANCING DAMPERS AND NEW OR RELOCATED EQUIPMENT.
- 20. AIR-BALANCE REPORT SHALL ACCOMPANY A SET OF AS-BUILT PLANS INDICATING EXACT TO-SCALE LOCATIONS AND FINAL BALANCE AIR RATES. MAINTAIN A MINIMUM OF ONE INTACT SET OF PROJECT PLANS AND SPECIFICATIONS AT JOB SITE MARKED TO SHOW ALL DEVIATIONS PERMITTED DURING CONSTRUCTION AS THE WORK IS INSTALLED. ALL MARKS SHALL BE RED IN COLOR, COMPLETE, CLEAR AND LEGIBLE.

HVAC SPECIFICATIONS

- 1.0 GENERAL
- 1.01 THE CONTRACT DOCUMENTS APPLY TO THESE SPECIFICATIONS.
- 1.02 PROVIDE ALL NECESSARY LABOR AND MATERIALS FOR THE WORK SHOWN ON THE DRAWINGS, WHICH INCLUDES REMOVAL OF EQUIPMENT AND COMPONENTS TO BE REMOVED AS WELL AS INSTALLATION OF HVAC SYSTEMS.
- 1.03 WORK SHALL MEET REQUIREMENTS OF LOCAL BUILDING CODES AND ORDINANCES, APPLICABLE REQUIREMENTS OF THE VUSBC AND NFPA.
- 1.04 SUBMIT SHOP DRAWINGS FOR THE FOLLOWING:
- A. GRILLES, REGISTERS & DIFFUSERSB. HEATING AND AIR CONDITIONING EQUIPMENTC. INSULATION
- 1.05 PLACING IN SERVICE:
 - A. BEFORE BEING PLACED INTO OPERATION, ALL EQUIPMENT REQUIRING PREOPERATIONAL ATTENTION SHALL BE SERVICED IN ACCORDANCE WITH THE REQUIREMENTS OF THESE SPECIFICATIONS AND THE MANUFACTURER'S RECOMMENDATIONS.
 - B. THIS SERVICING SHALL INCLUDE LUBRICATION, CONTROL CALIBRATIONS AND ADJUSTMENTS, AND TESTING AND ADJUSTING OF OPERATING CONTROLS
- C. AT THE COMPLETION OF PERFORMANCE TEST AND FOLLOWING APPROVAL OF TEST RESULTS, THE CONTRACTOR SHALL RECHECK ALL EQUIPMENT AND VERIFY THAT EACH ITEM IS FUNCTIONING CORRECTLY.
- D. FURNISH ALL NECESSARY EQUIPMENT AND ASSUME ALL COSTS INVOLVED TO PERFORM ALL TESTING, CLEANING, AND BALANCING OPERATIONS REQUIRED.
- E. TEST, ADJUST AND BALANCE ALL SYSTEMS UNTIL DESIGN FUNCTION AND OPERATION ARE ACHIEVED. THE CONTRACTOR SHALL ENGAGE THE SERVICES OF AN INDEPENDENT CONTRACTOR WHO SPECIALIZES IN THE PRACTICE OF TESTING, ADJUSTING AND BALANCING MECHANICAL EQUIPMENT AND SYSTEMS.

2.0 PRODUCTS

2.01 DUCTWORK:

- A. DUCT SYSTEMS SHALL BE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS, THE NATIONAL FIRE PROTECTION ASSOCIATION AND MANUFACTURER'S RECOMMENDATIONS WHERE APPLICABLE.
- B. SYSTEMS AND MATERIALS: LOW VELOCITY A/C (GENERAL USE) GALVANIZED STEEL.
- C. FITTINGS FOR ALL DUCT SYSTEMS SHALL BE OF THE SAME MATERIAL AS THE DUCT.
- D. MATERIALS: GALVANIZED STEEL SHALL MEET REQUIREMENTS OF ASTM A-527, "STEEL SHEET, ZINC COATED BY THE HOT-DIP PROCESS, LOC-FORMING QUALITY." MANUAL DAMPER OPERATORS SHALL BE LOCKING TYPE AS MANUFACTURED BY VENTFABRICS, INC. OR YOUNG RECULATOR COMPANY
- E. FLEXIBLE AIR DUCT SHALL BE FLEXMASTER TYPE 8M INSULATED FLEXIBLE DUCT. THE COMPLETE DUCT SHALL CONFORM TO NFPA 90A AND BE LISTED BY UNDERWRITER'S LABORATORIES AS 181 CLASS 1 AIR DUCT.
- F. JOINT AND SEAM SEALANTS SHALL BE UL CLASSIFIED WITH A FLAME—SPREAD RATING OF 25 OR LESS AND SMOKE—DEVELOPMENT RATING OF 50 OR LESS WHEN APPLIED TO GALVANIZED STEEL.
- G. ALL NECESSARY ALLOWANCES AND PROVISIONS SHALL BE MADE FOR BEAMS, CONDUITS, PIPING AND OTHER OBSTRUCTIONS OF THE BUILDING. WHERE NECESSARY TO AVOID OBSTRUCTIONS, THE DUCTS SHALL BE TRANSFORMED, OFFSET, RAISED OR LOWERED WITH THE REQUIRED FREE AREA BEING MAINTAINED.
- H. PROVIDE FLEXIBLE CONNECTIONS BETWEEN THE HVAC UNITS AND SHEET METAL DUCTWORK.

2.02 PIPE AND PIPE FITTINGS

- A. COPPER TUBE TYPE ACR: ASTM B280.
- B. PVC PIPE: SCH. 40, GRADE PVC 2116: ASTM D1785 AND ASTM
- 2.03 PIPING SYSTEM SHALL BE SUPPORTED IN ACCORDANCE WITH ANSI B31.1 "POWER PIPING" SO AS TO MAINTAIN REQUIRED PITCH OF LINES, PREVENT VIBRATION AND PROVIDE FOR EXPANSION AND CONTRACTION MOVEMENT.

2.04 PIPING SCHEDULE

SERVICE	SIZE	PIPE TYPE	FITTING TYPE	VALVE TYPE	VALVE MFG & NO
CONDENSATE DRAINS	ALL SIZES	SCH. 40 PVC			
REFRIGERANT	ALL SIZES	TYPE ACR CLEANED AND CAPPED	WROUGHT COPPER BRAZE		

2.05 INSULATION SCHEDULE

SERVICE	TYPE INSUL.	THICKNESS INCHES	FINISH IN CNCL. AREAS	FINISH IN FNSH AREAS	NOTES
(1) PIPING					
CONDENSATE	GLASS FIBER	1.0	INTEGRAL FIRE RETARDANT VAPOR BARRIER JACKET		
REFRIGERANT LOW TEMP, ALL SIZES	FLEXIBLE ELASTOMERIC	0.75	NONE	TWO COATS ARMAFLEX FINISH	
(2) DUCTWORK					
A/C SUPPLY, RETURN & OUTSIDE AIR	FLEXIBLE GLASS FIBER	1.5	FSK VAPOR BARRIER JACKET	LINE INTERNALLY WITH JOHNS MANVILLE SPIRACOUSTIC DUCT LINER FOR SPIRAL DUCT	1, 2

NOTES:

- 1. APPLY FLEXIBLE GLASS FIBER INSULATION IN CONCEALED AREAS ONLY.
- 2. APPLY RIGID INSULATION AT LOCATIONS WHERE DUCTS ARE SUPPORTED FROM BELOW.

3.0 EXECUTION

- 3.01 TEST FIELD—ASSEMBLED REFRIGERANT PIPING AND APPARATUS FOR ONE HOUR WITH DRY CARBON DIOXIDE OR NITROGEN, PLUS A SMALL AMOUNT OF REFRIGERANT. TEST PRESSURES SHALL BE IN ACCORDANCE WITH THE AMERICAN STANDARD SAFETY CODE FOR MECHANICAL REFRIGERATION.
- 3.02 DUCT SYSTEMS SHALL BE BALANCED TO PROVIDE AIR QUANTITIES WITHIN TEN (10) PERCENT OF SPECIFIED REQUIREMENTS. FOR OUTLETS LESS THAN 75 CFM, THE TOLERANCE SHALL BE +/- TWENTY (20) PERCENT, UNLESS OTHERWISE NOTED.

PROGRESS
PRINT.
NOT FOR
CONSTRUCTION
8/4/2020

| Design Final | Designed by | Date | Designed by | Date | Designed by | CLS | Designed by | Desig

M001

—— of ——

BUILDING 410 SCHEDULES

AIR DISTRIBUTION SCHEDULE							
MARK	MODEL	NECK SIZE	MOUNTING	MAXNC	REMARKS		
CD	SCDA	SEE PLANS	LAY-IN	STEEL	OFF-WHITE	# 30	1, 2
RG-1	PDR	22 X 22	LAY-IN	STEEL	OFF-WHITE	30	1, 2

FAN SCHEDULE								
MARK	MODEL	CFM	SP in Wg	WATTS/HP	SONES	DRIVE	V/Ph/Hz	REMARKS
EF-1	SP-B150	150	0.25	128W	3	DIRECT	115/1/60	1, 2
EF-2	SP-B150	150	0.25	128W	3	DIRECT	115/1/60	1, 2
REMARKS.								

- 1. MODEL NUMBER BASED ON GREENHECK.
- 2. PROVIDE WITH SOLID STATE SPEED CONTROL FOR AIR FLOW ADJUSTMENT CONCEALED ABOVE CEILING ADJACENT TO FAN POWER SUPPLY.

C	ALCULATED HVAC LOADS F	OR SYSTEM
AIR SYSTEM NUMBER	SUPPLY AIR FLOW RATE (CFM) OCCUPIED OA AIR FLOW RATE (CFM) SENSIBLE COOLING L

2. PROVIDE BORDER TRIM SUITABLE FOR TEGULAR CEILING WHERE REQUIRED. COORDINATE WITH ARCHITECTURAL CEILING PLANS.

CALCULATED HVAC LOADS FOR SYSTEMS SERVING BUILDING 410								
AIR SYSTEM NUMBER	SUPPLY AIR FLOW RATE (CFM)	OCCUPIED OA AIR FLOW RATE (CFM)	SENSIBLE COOLING LOAD (BTUH)	LATENT COOLING LOAD (BTUH)	TOTAL COOLING LOAD (BTUH)	HEATING LOAD (BTUH)		
AHU/HP-1	800	131	17,451	5,316	22,767	19,620		
AHU/HP-2	800	136	13,216	4,910	18,126	16,701		
AHU/HP-3 (ETR - REBALANCE PER PLANS)	1950	450	22,774	15,298	38,072	36,977		
AHU/HP-4 (ETR - REBALANCE PER PLANS)	1550	137	15,648	5,326	20,974	17,962		

CALCULATION TABLE NOTES:

REMARKS:

- 1. CALCULATIONS IN ACCORDANCE WITH 2015 VIRGINIA CONSTRUCTION CODE (VUSBC/IBC/IMC/IECC)
- 2. CALCULATIONS BASED ON CLIMATIC WEATHER DATA FOR STERLING, VIRGINIA, USA AND FOR
- 72°F HEATING AND 75°F COOLING DESIGN TEMPERATURES.

1. MODEL NUMBER BASED ON PRICE INDUSTRIES.

	MISCELLANEOUS EQUIPMENT SCHEDULE
MARK	DESCRIPTION
AHU/HP-1	SPLIT SYSTEM HEAT PUMP - TRANE MODEL GAM5B0A24M21SB INDOOR FAN COIL AIR HANDLING UNIT SUITABLE FOR HORIZONTAL AIR FLOW CONFIGURATION WITH TRANE MODEL 4TWB4024G1000B OUTDOOR HEAT PUMP. INDOOR UNIT SHALL HAVE NOMINAL AIR FLOW CAPACITY OF 800 CFM AT 0.3 INWG STATIC PRESSURE AND 7.68 KW ELECTRIC BACKUP HEAT. SYSTEM SHALL HAVE NOMINAL CAPACITY OF 2 TONS COOLING AT 80DEG F DB/68DEG F WB ENTERING AIR CONDITIONS. PROVIDE WITH PROGRAMMABLE WALL MOUNTED INDOOR THERMOSTAT FOR SYSTEM CONTROL AND TO ENERGIZE AND OPEN OUTSIDE AIR DAMPER WHEN IN OCCUPIED MODE. SYSTEM SHALL HAVE 240V/1PH/60HZ ELECTRICAL POWER SERVICE CHARACTERISTICS. PROVIDE MERV 13 FILTER.
AHU/HP-2	SPLIT SYSTEM HEAT PUMP - TRANE MODEL GAM5B0A24M21SB INDOOR FAN COIL AIR HANDLING UNIT SUITABLE FOR HORIZONTAL AIR FLOW CONFIGURATION WITH TRANE MODEL 4TWB4024G1000B OUTDOOR HEAT PUMP. INDOOR UNIT SHALL HAVE NOMINAL AIR FLOW CAPACITY OF 800 CFM AT 0.3 INWG STATIC PRESSURE AND 7.68 KW ELECTRIC BACKUP HEAT. SYSTEM SHALL HAVE NOMINAL CAPACITY OF 2 TONS COOLING AT 80DEG F DB/68DEG F WB ENTERING AIR CONDITIONS. PROVIDE WITH PROGRAMMABLE WALL MOUNTED INDOOR THERMOSTAT FOR SYSTEM CONTROL AND TO ENERGIZE AND OPEN OUTSIDE AIR DAMPER WHEN IN OCCUPIED MODE. SYSTEM SHALL HAVE 240V/1PH/60HZ ELECTRICAL POWER SERVICE CHARACTERISTICS. PROVIDE MERV 13 FILTER.

BUILDING 414 SCHEDULES

		AIR DIS	STRIBUT	ION SCH	EDULE		
MARK	MODEL	NECK SIZE	MOUNTING	MATERIAL	COLOR	MAXNC	REMARKS
CD	SCDA	SEE PLANS	LAY-IN	STEEL	OFF-WHITE	# 30	1, 2
RG-1	PDR	22 X 22	LAY-IN	STEEL	OFF-WHITE	30	1, 2

REMARKS:

- 1. MODEL NUMBER BASED ON PRICE INDUSTRIES.
- 2. PROVIDE BORDER TRIM SUITABLE FOR TEGULAR CEILING WHERE REQUIRED. COORDINATE WITH ARCHITECTURAL CEILING PLANS.

FAN SCHEDULE								
MARK	MODEL	CFM	SP in Wg	WATTS/HP	SONES	DRIVE	V/Ph/Hz	REMARKS
EF-1	SP-B110	100	0.25	80W	1.5	DIRECT	115/1/60	1, 2
EF-2	SP-B110	100	0.25	80W	1.5	DIRECT	115/1/60	1, 2

REMARKS:

- 1. MODEL NUMBER BASED ON GREENHECK.
- 2. PROVIDE WITH SOLID STATE SPEED CONTROL FOR AIR FLOW ADJUSTMENT CONCEALED ABOVE CEILING ADJACENT TO FAN POWER SUPPLY.

CALCULATED HVAC LOADS FOR SYSTEMS SERVING BUILDING 414							
AIR SYSTEM NUMBER	SUPPLY AIR FLOW RATE (CFM)	OCCUPIED OA AIR FLOW RATE (CFM)	SENSIBLE COOLING LOAD (BTUH)	LATENT COOLING LOAD (BTUH)	TOTAL COOLING LOAD (BTUH)	HEATING LOAD (BTUH)	
AHU/HP-1	NA	NA	NA	NA	NA	NA	
AHU/HP-2 (REPLACEMENT IN LIKE KIND)	NA	NA	NA	NA	NA	NA	
AHU/HP-3	800	200	17,527	6,177	23,704	32,552	
AHU/HP-4	800	137	16,389	6,643	23,033	19,692	
AHU/HP-5 (ETR - REBALANCE PER PLANS)	800	68	12,109	2,757	14,866	18,535	
AHU/HP-6 (ETR - REBALANCE PER PLANS)	800	55	10,480	2,265	12,745	18,629	

CALCULATION TABLE NOTES:

- 1. CALCULATIONS IN ACCORDANCE WITH 2015 VIRGINIA CONSTRUCTION CODE (VUSBC/IBC/IMC/IECC)
- 2. CALCULATIONS BASED ON CLIMATIC WEATHER DATA FOR STERLING, VIRGINIA, USA AND FOR
- 72°F HEATING AND 75°F COOLING DESIGN TEMPERATURES.

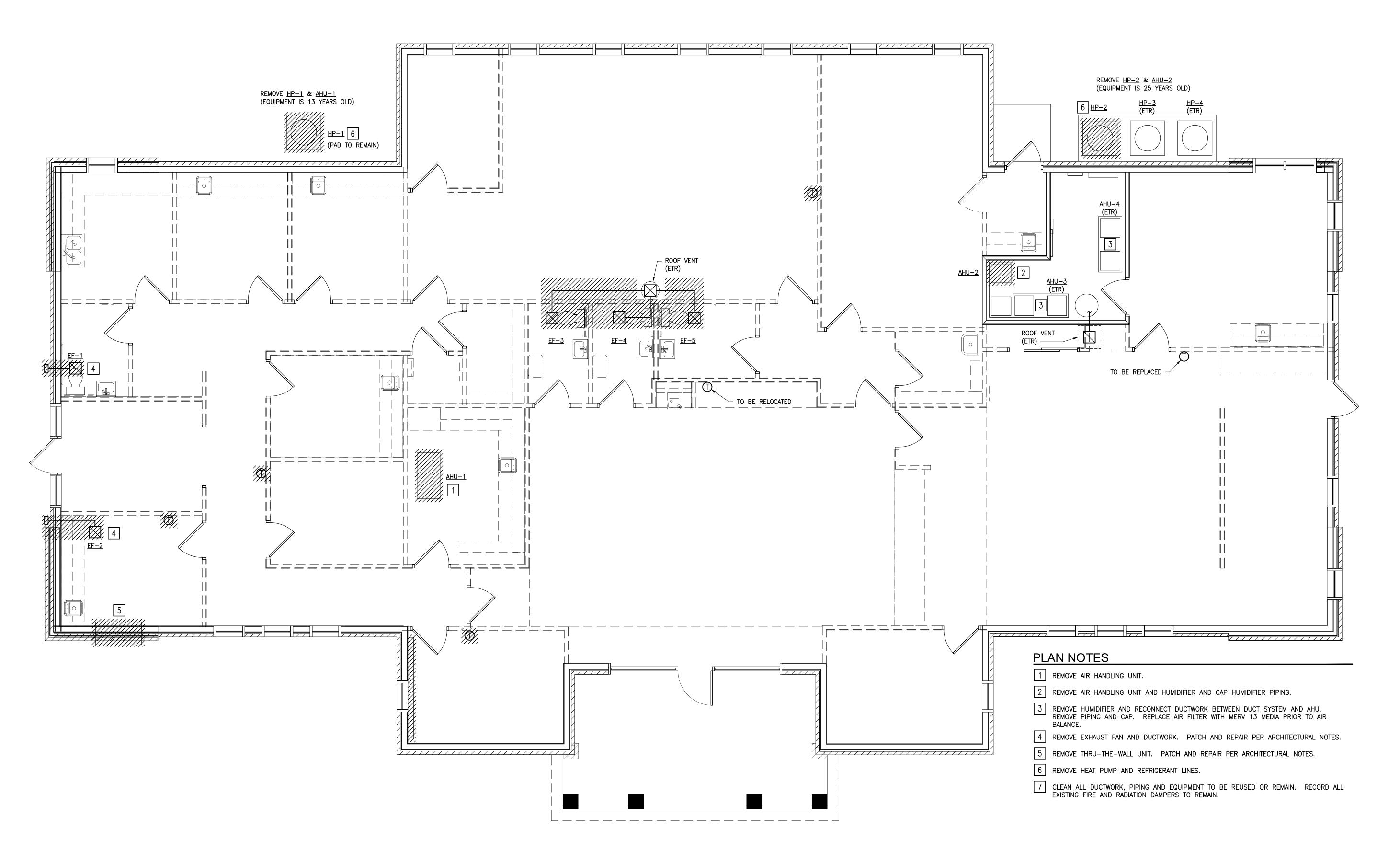
	MISCELLANEOUS EQUIPMENT SCHEDULE
MARK	DESCRIPTION
AHU/HP-2	SPLIT SYSTEM HEAT PUMP - TRANE MODEL GAM5B0C60M51EA INDOOR FAN COIL AIR HANDLING UNIT SUITABLE FOR HORIZONTAL AIR FLOW CONFIGURATION WITH TRANE MODEL 4TWB4061E1000C OUTDOOR HEAT PUMP. INDOOR UNIT SHALL HAVE NOMINAL AIR FLOW CAPACITY OF 1790 CFM AT 0.3 INWG STATIC PRESSURE AND 7.2 KW ELECTRIC BACKUP HEAT. SYSTEM SHALL HAVE NOINAL CAPACITY OF 5 TONS COOLING AT 80DEG F DB/68DEG F WB ENTERING AIR CONDITIONS. PROVIDE WITH PROGRAMMABLE WALL MOUNTED INDOOR THERMOSTAT FOR SYSTEM CONTROL AND TO ENERGIZE AND OPEN OUTSIDE AIR DAMPER WHEN IN OCCUPIED MODE. SYSTEM SHALL HAVE 208V/3PH/60HZ ELECTRICAL POWER SERVICE CHARACTERISTICS. PROVIDE MERV 13 FILTER.
AHU/HP-3	SPLIT SYSTEM HEAT PUMP - TRANE MODEL GAM5B0A24M21SB INDOOR FAN COIL AIR HANDLING UNIT SUITABLE FOR HORIZONTAL AIR FLOW CONFIGURATION WITH TRANE MODEL 4TWB4024G1000B OUTDOOR HEAT PUMP. INDOOR UNIT SHALL HAVE NOMINAL AIR FLOW CAPACITY OF 800 CFM AT 0.3 INWG STATIC PRESSURE AND 7.68 KW ELECTRIC BACKUP HEAT. SYSTEM SHALL HAVE NOINAL CAPACITY OF 2 TONS COOLING AT 80DEG F DB/68DEG F WB ENTERING AIR CONDITIONS. PROVIDE WITH PROGRAMMABLE WALL MOUNTED INDOOR THERMOSTAT FOR SYSTEM CONTROL AND TO ENERGIZE AND OPEN OUTSIDE AIR DAMPER WHEN IN OCCUPIED MODE. SYSTEM SHALL HAVE 208V/1PH/60HZ ELECTRICAL POWER SERVICE CHARACTERISTICS. PROVIDE MERV 13 FILTER.
AHU/HP-4	SPLIT SYSTEM HEAT PUMP - TRANE MODEL GAM5B0A24M21SB INDOOR FAN COIL AIR HANDLING UNIT SUITABLE FOR HORIZONTAL AIR FLOW CONFIGURATION WITH TRANE MODEL 4TWB4024G1000B OUTDOOR HEAT PUMP. INDOOR UNIT SHALL HAVE NOMINAL AIR FLOW CAPACITY OF 800 CFM AT 0.3 INWG STATIC PRESSURE AND 7.2 KW ELECTRIC BACKUP HEAT. SYSTEM SHALL HAVE NOINAL CAPACITY OF 2 TONS COOLING AT 80DEG F DB/68DEG F WB ENTERING AIR CONDITIONS. PROVIDE WITH PROGRAMMABLE WALL MOUNTED INDOOR THERMOSTAT FOR SYSTEM CONTROL AND TO ENERGIZE AND OPEN OUTSIDE AIR DAMPER WHEN IN OCCUPIED MODE. SYSTEM SHALL HAVE 208V/1PH/60HZ ELECTRICAL POWER SERVICE CHARACTERISTICS. PROVIDE MERV 13 FILTER.

PROGRESS PRINT. NOT FOR CONSTRUCTION

8/4/2020

M002

_____ of _____

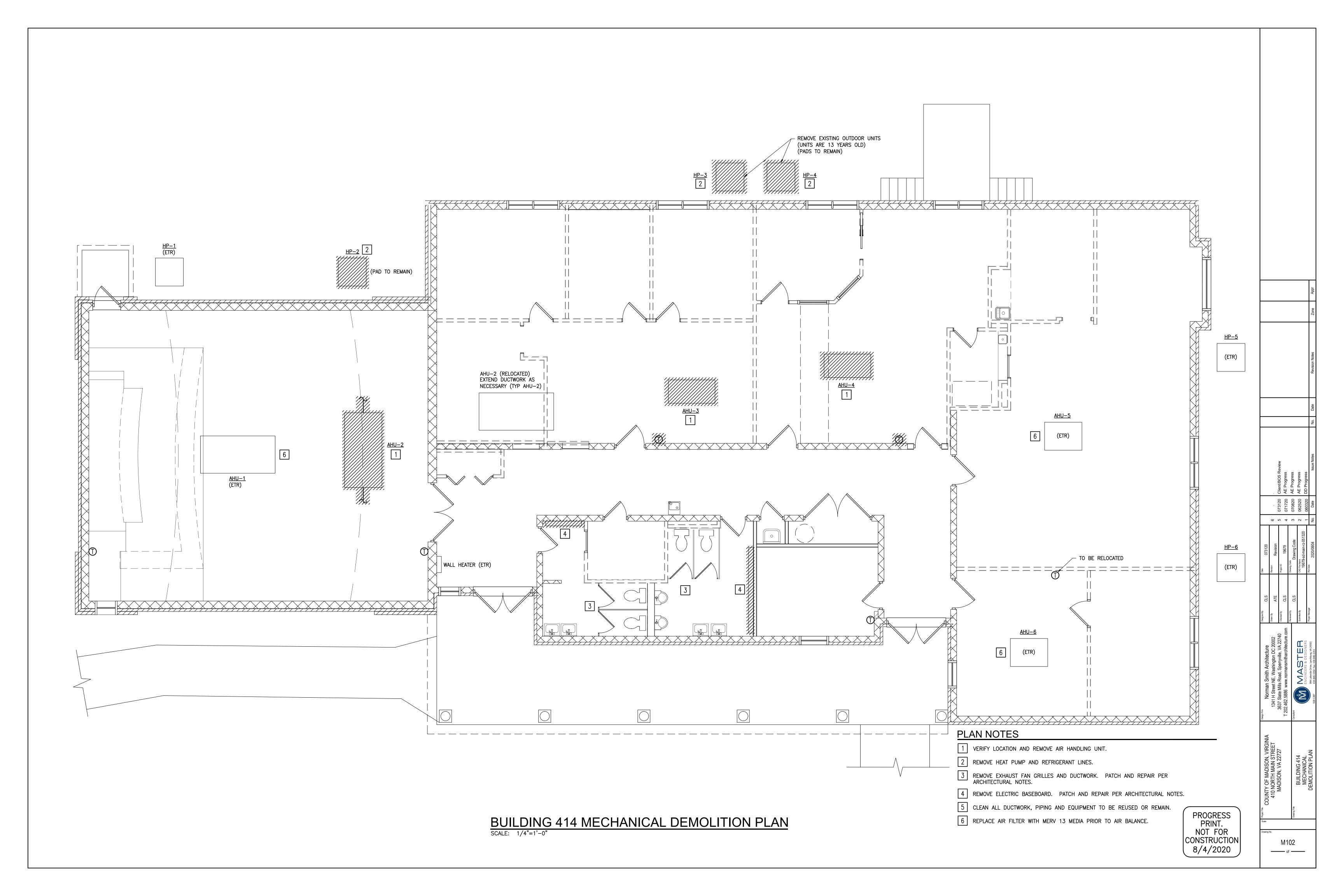


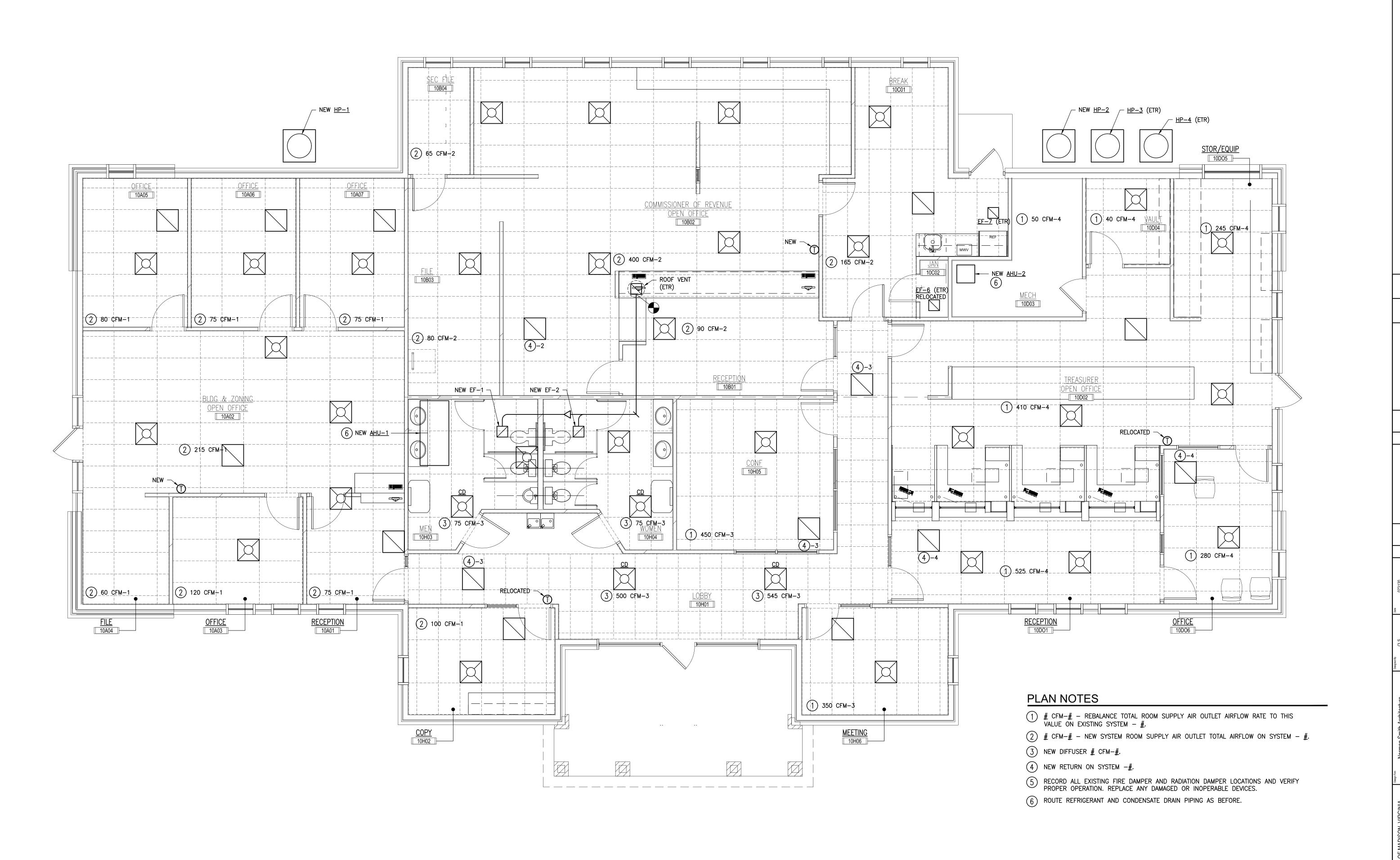
BUILDING 410 MECHANICAL DEMOLITION PLAN

| SCALE: 1/4"=1'-0" | 7

PROGRESS PRINT. NOT FOR CONSTRUCTION 8/4/2020

—— of ——









COUNTY OF MADISON, VIRGINIA A1341 H Street NE, Washington DC 20002
410 NORTH MAIN STREET 3637 Slate Mills Road, Sperryville, VA 22740
T 202.462.5886 www.normansmitharchitecture.con

Client/BOS Re AE Progress AE Progress AE Progress

0 4 8 8 7 - 5

M201

